Compact Computer Unit-2 (CCU-2)

General Dynamics' next generation Version 2 Compact Computer Unit-2 (V2 CCU-2) provides a complete, powerful, compact, and transportable alternative to a stand-alone workstation with separate CPU, display, UPS, and keyboard components. The CCU-2 provides the same advanced computing features of high-end workstations like General Dynamics' rugged UltraSPARC™ 10-based HCU-2, but is packaged together with a 16" active matrix flat panel display and integral, detachable keyboard/trackball assembly. Innovative design features like a fold-down keyboard with elongated wrist rest provide the user with an efficient, ergonomic work environment which can be setup or taken down in just minutes. Offering a maximum resolution of up to 1280 x 1024 pixels, the active matrix thin film transistor display supports the most demanding graphical display requirements with a crisp, accurate image.

The V2 CCU-2 supplies integrated display, CPU, UPS, and keyboard for rapid set-up and transport.

The CCU-2's compact size (only 10.5" deep, including display), light weight (approximately 56 lbs. configuration-dependent) and lower power consumption (less than 250 watts) allow it to be used in situations like mobile exploration field environments or dismounted lightweight configurations that would not have been feasible using standard suites of workstation components. Based on Sun's Ultra AXi™ motherboard and powered by the powerful 333 MHz 64-bit UltraSPARC-IIi processor with 2MB of cache, the CCU-2 conforms to the industry-standard ATX motherboard format and provides six 33 MHz/32-bit PCI expansion slots. The CCU-2 configured with 24-bit graphics and audio interface boards leaves four PCI expansion slots open for user defined options. The modular processor can be readily upgraded to keep pace with Sun's release of faster CPUs.

The V2 CCU-2 operates on a wide range of input voltages including vehicular 28 VDC, and US and European commercial AC. An integrated rechargeable NiMH battery will hold up operations for up to 10 minutes upon loss of prime power to allow for an orderly shutdown of the Solaris operating system.

For added expandability, flexibility, compatibility, and value, the CCU-2 can use all the same industry-standard PCI special purpose boards and mass storage devices as General Dynamics' rugged HCU-2 workstation. Memory is scaleable to 1GB.

General Dynamics' CCU-2 will operate "on-the-move" in both wheeled and tracked vehicles, and meets all the stringent MIL-STD-810E environmental and MIL-STD-461D emissions requirements of the U.S. Army's CHS-2 program.

CCU-2 Specifications

Computer/Display

CPUs:	UltraSPARC AXi (UltraSPARC IIi CPU)
Max RAM:	1GB DRAM
Mass Storage:	Up to four 5.25" half-height devices
Keyboard:	Fully sealed detachable Sun Type 5 with integral 1.6-inch trackball
Display:	16" color active matrix TFT - 1280 x 1024 resolution

Physical

Dimensions:	14.5"H x 22"W x 10.5"D
Weight:	56 lbs. (configuration dependent)

Interfaces

Network:	Fast Ethernet - 10/100 Base T via RJ-45
SCSI:	Internal and external ultra-wide SCSI-3
Serial:	Two RS232/RS423
Parallel:	One Centronics compatible
Audio:	16 Bit audio

Electrical

AC:	110+/- 10%, 220+/- 10%, 47-63Hz
DC:	22-32 VDC
UPS:	Internal UPS recharging from AC or DC input supplies up to 10 min. backup power

Environmental

Temperature:	
Operating:	0°F to 120°F
Storage:	-25°F to 150°F
Shock:	0°F to 70°F and 120°F to 70°F in 10 min.
Humidity:	10 to 95% (non-condensing)
Altitude:	15,000 ft operating; 40,000 ft non-operating
Vibration:	Operation and transport in wheeled and tracked vehicles
Shock/Drop:	Bench handling; 3 drops on each face from 3 ft in transit case
Rain:	Operates in conditions of blown precipitation and spillage
Sand & Dust:	3.5 mph for 20 minutes
Tilt:	Operates stationary, 30° incline on any axis
Fungus:	No nutrients/contaminants
EMI:	MIL-STD-461D
HEMP:	MIL-STD-2169B

Features

- Integrated CPU, flat panel display, UPS, and keyboard/trackball
- High resolution 16" active matrix TFT Color LCD (up to 1280 x 1024, SXGA)
- UltraSPARC AXi engine supporting pluggable Ultra SPARC IIi CPU module (333 MHz+)
- Up to four 5.25" half-height device bays
- Up to four PCI expansion slots
- Standard 3.5" floppy disk drive
- Standard fast Ethernet, SCSI, serial, parallel, and audio I/O
- Removable ultra-wide SCSI hard disk storage up to 18 GB per disk
- Lightweight (approx. 56 lbs., config dependent)
- Low power (less than 250 W)
- Compact size (14.5"H x 22"W x 10.5"D)
- Auto ranging AC input or 28 VDC
- Internal UPS for up to 10 min. backup power

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